

# Key Criteria 7 - Assessing a relative ozone AQ impact for potential nearby contributing areas upwind of violating sites in Wisconsin

June 17, 2003

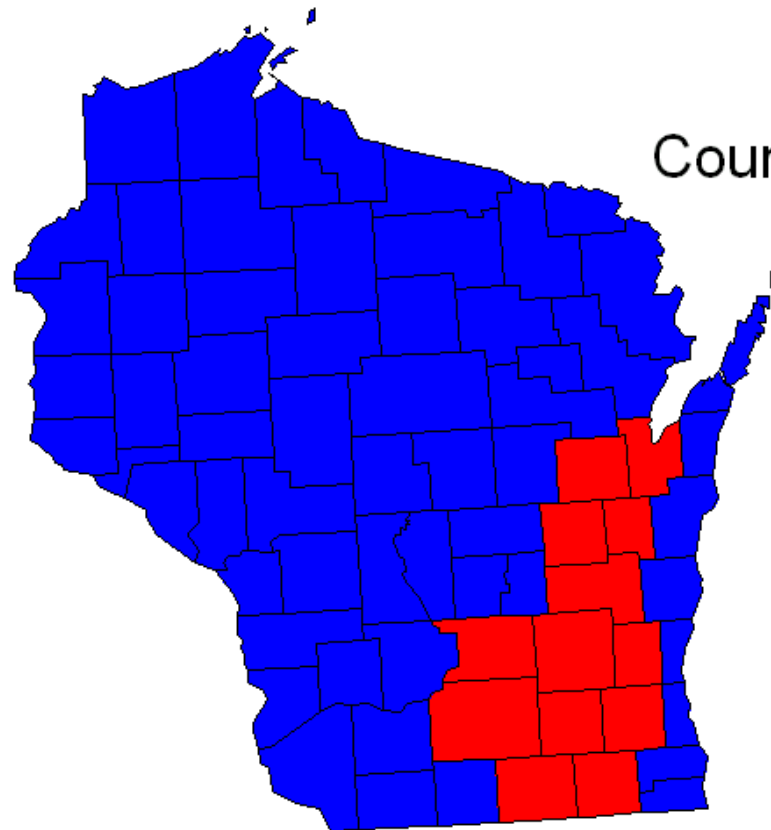
The following maps portray the impact of NO<sub>x</sub> plus VOC emissions, NO<sub>x</sub> emissions alone and aggregate Mobile Sector emissions for the areas in Wisconsin assessed for potential contribution to violating sites. The counties included in the assessment include the area of south central and east central and north east Wisconsin presumed through population and emissions assessments to have a potential to impact the violation status of other counties in the state - both with elevated but attainment readings and those with violating readings. The assessment formed a basis for an earlier air program recommendation to designate a larger area based on a full assessment of contribution and the impact of the base emissions from the contributing areas on the monitored violation status for downwind areas. The assessment of this episode led to such a contribution conclusion for areas in northeastern, south central and east central Wisconsin.

# 2001 - June Episode

## Fringe Area Impact “Contribution” Assessment

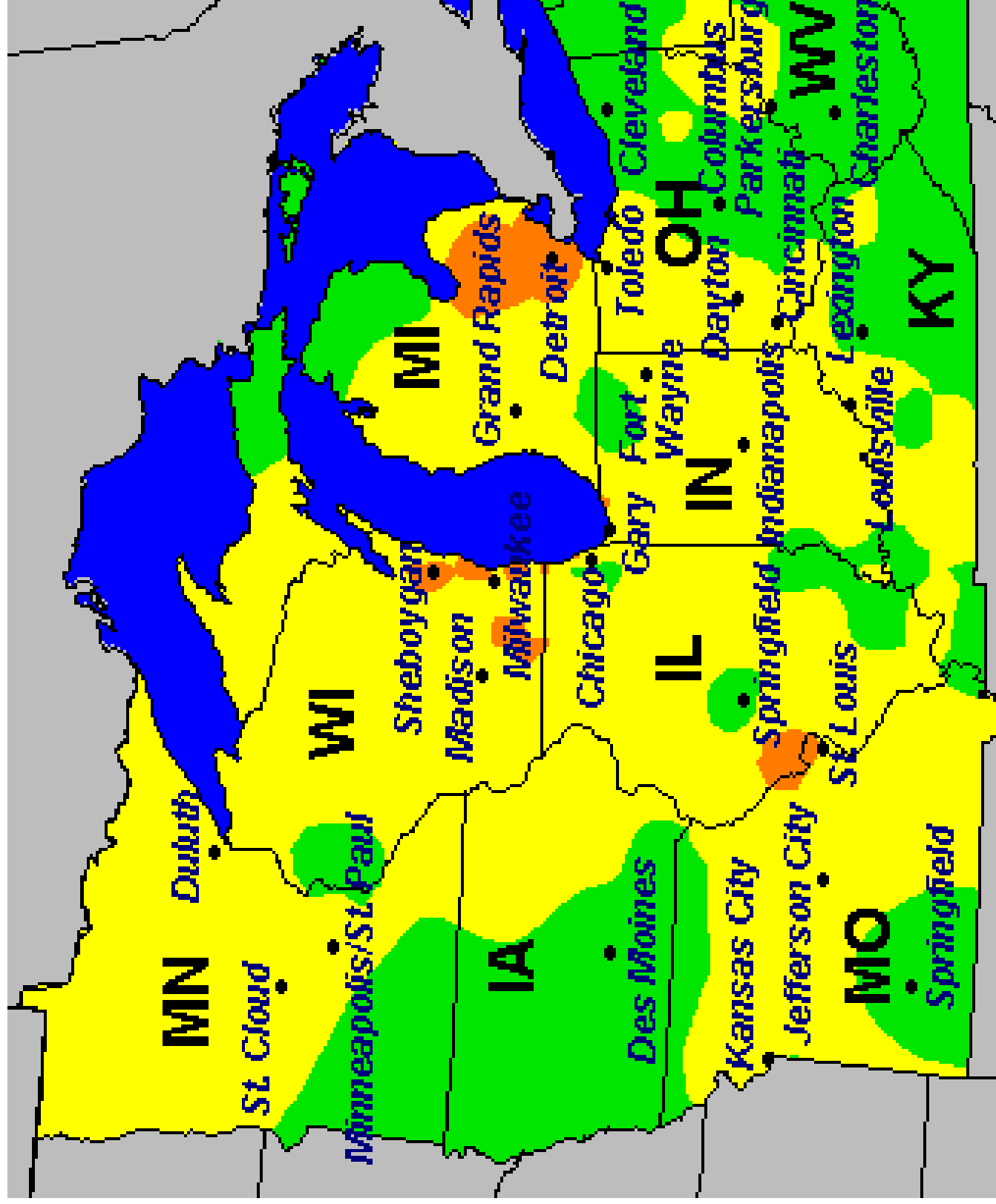
### Wisconsin Collar Counties NAAQS 8-hour Ozone Standard Analysis

**Modeled Impacts of Zero-Out emission reductions (NO<sub>x</sub> and VOC) from the non-Lake Shore Counties ranging from Rock County through Brown County through Brown County and including the Dane Co and Fox Valley regions compared to AIRNOW 8-Hour Maps**



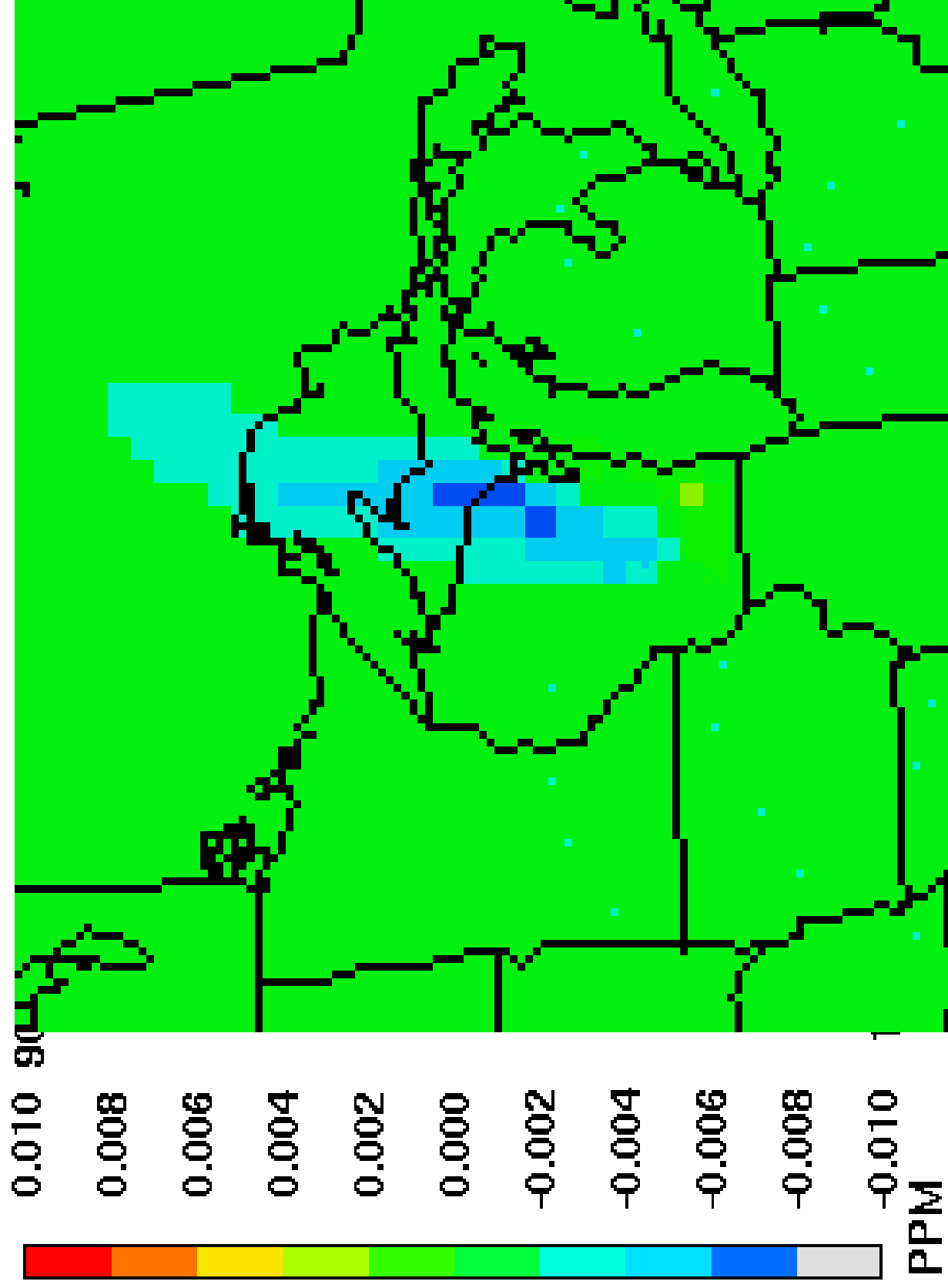
#### Counties Include:

Brown  
Calumet  
Columbia  
Dane  
Dodge  
Fond du Lac  
Jefferson  
Outagamie  
Rock  
Walworth  
Washington  
Waukesha  
Winnebago



June 25, 2001

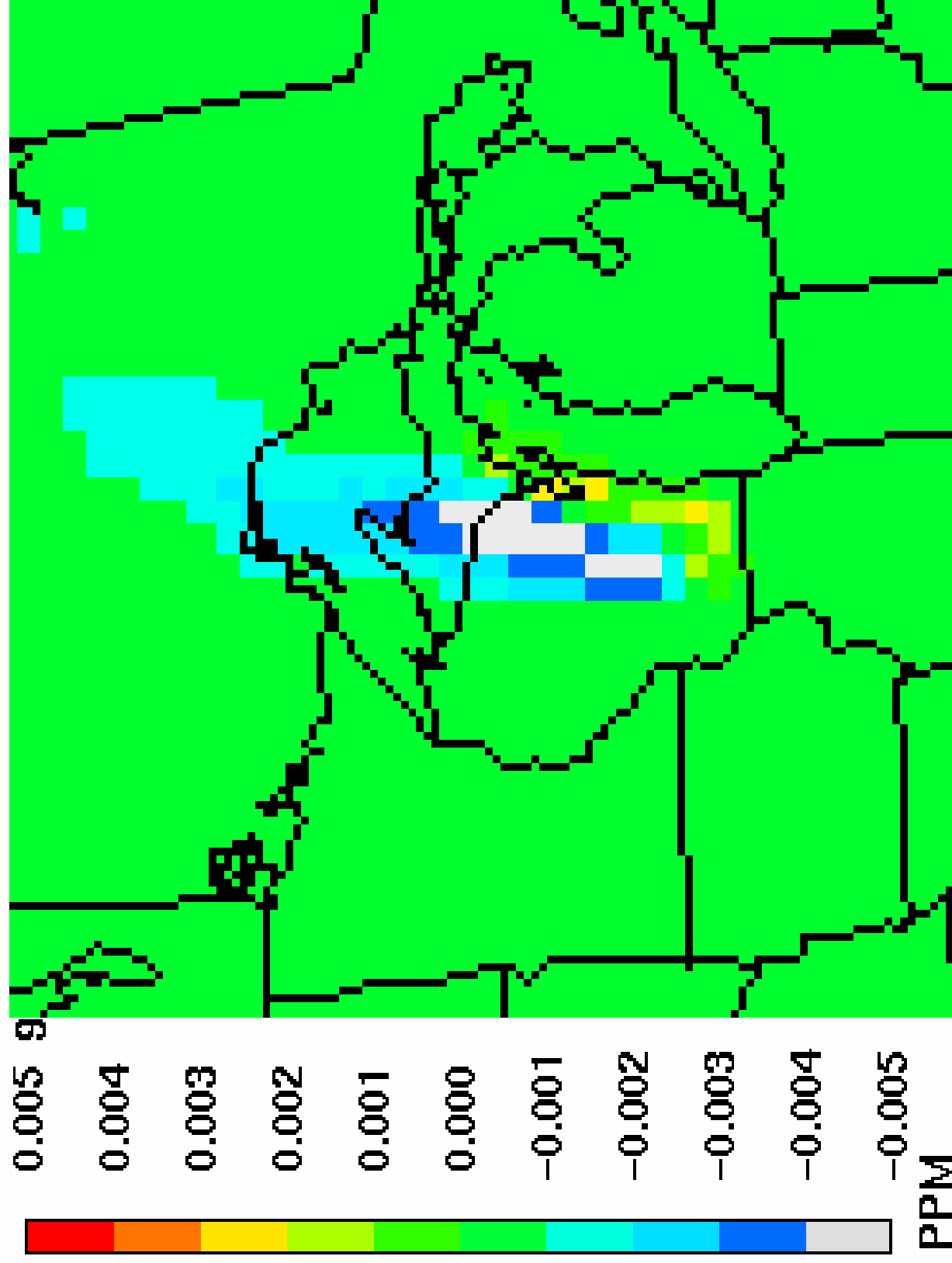
a=2001176.4pos.36.14.wl\_zeroALL.ld.camx.avg, b=2001176.4pos.36.14.baseD.ld.camx.a



June 25, 2001 0:00:00

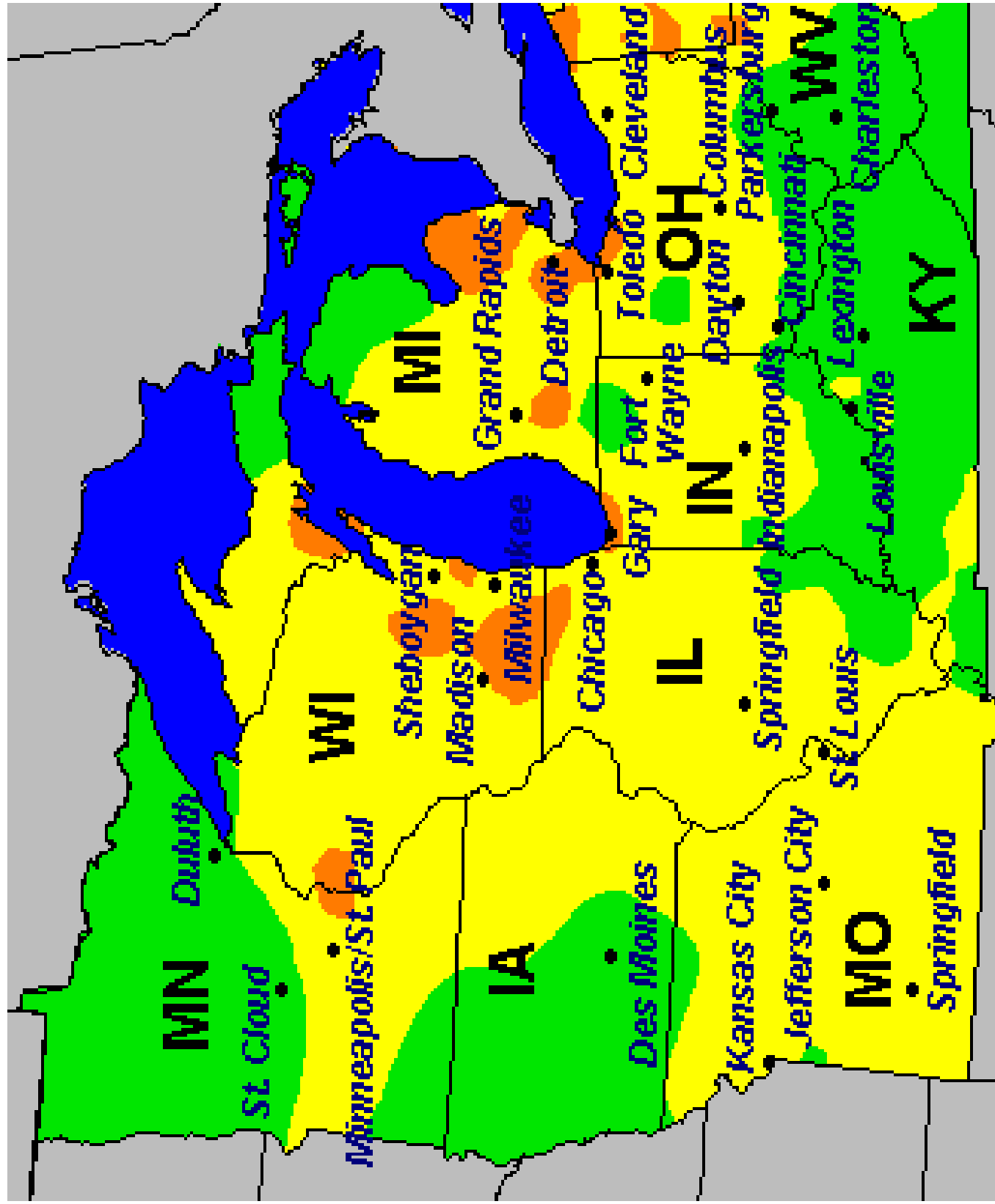
Min= -0.007 at (45,63), Max= 0.003 at (45,56)

5.4rpos.36.14.WI\_zeroNOX.ld.camx.avrg, b=2001176.4rpos.36.14.base



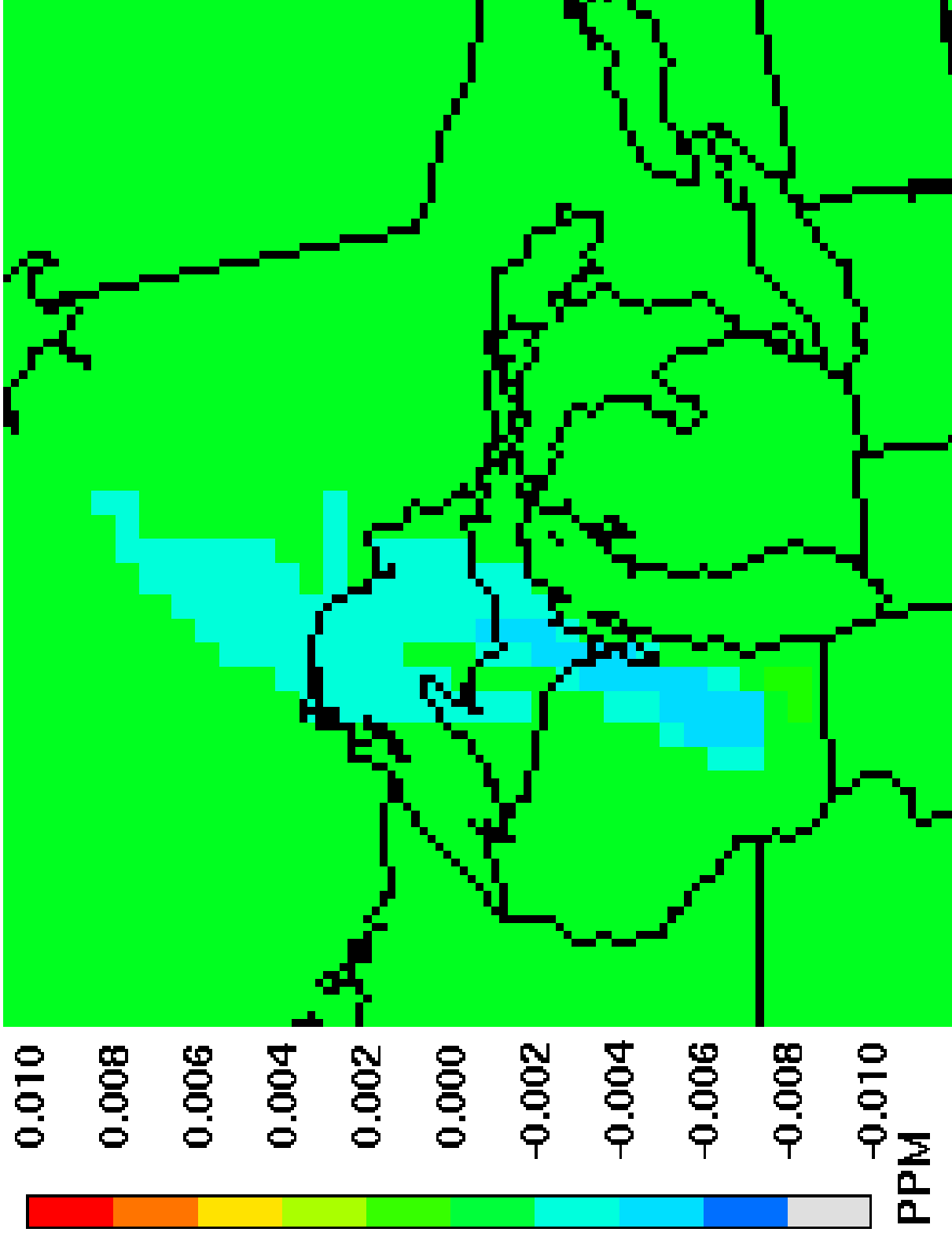
June 25, 2001 0:00:00

Min= -0.005 at (43,59), Max= 0.003 at (45,56)



June 26, 2001

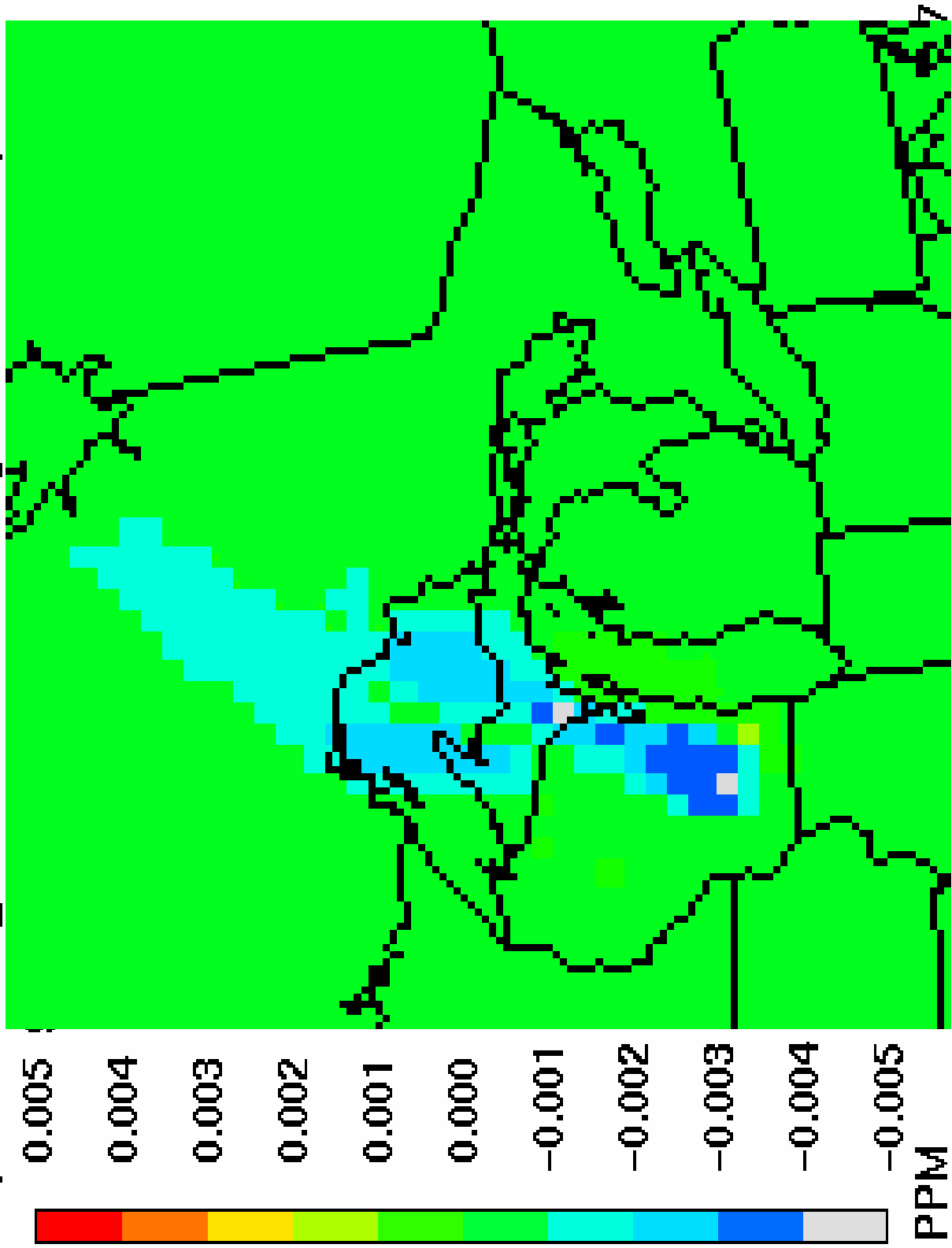
c=2001177.4pos.36.14.wl\_zeroALL.ld.camx.avrg, d=2001177.4pos.36.14.based.ld.camx.a



June 26, 2001 0:00:00

Min= -0.006 at (46,64), Max= 0.001 at (45,56)

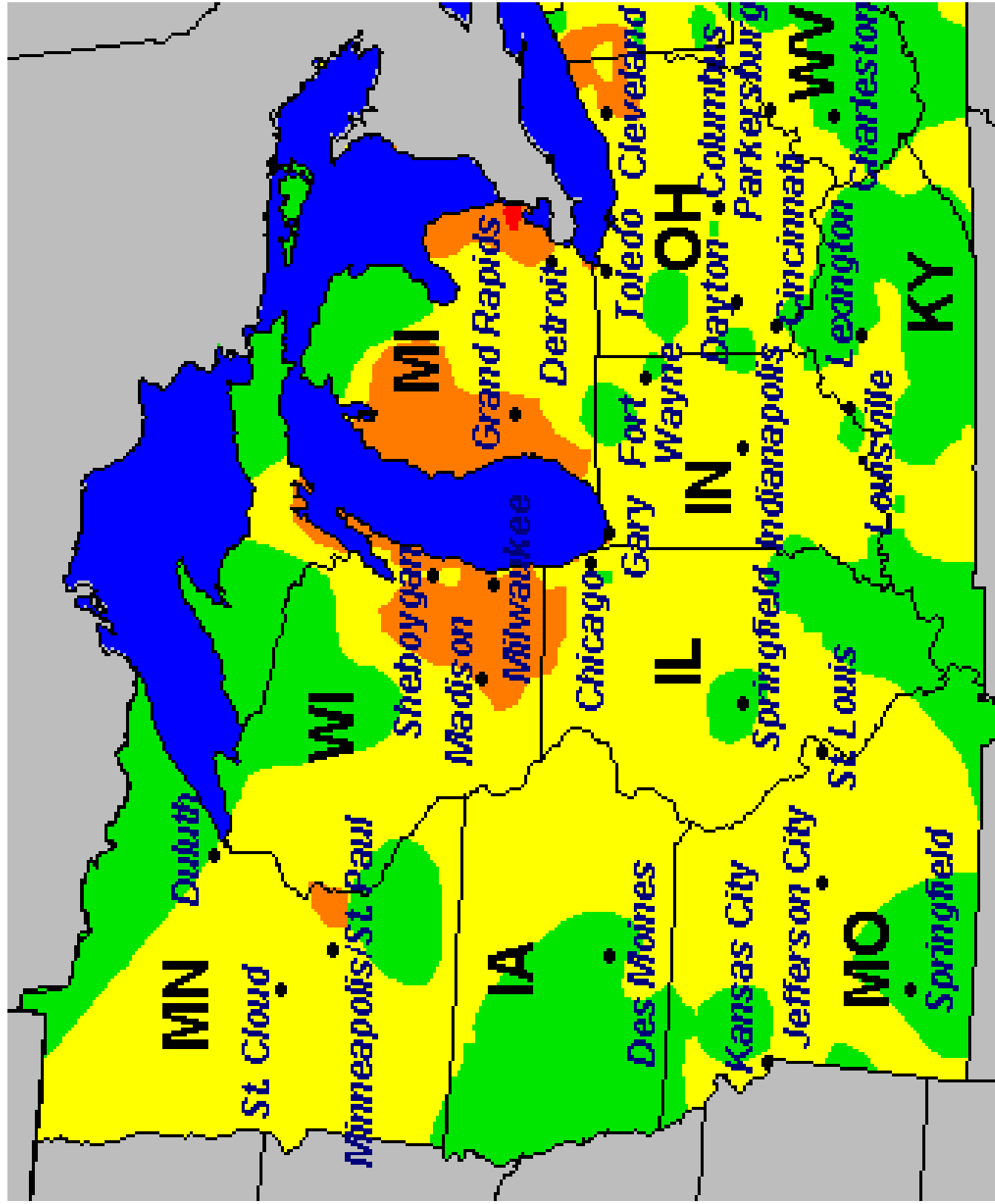
7.4rpos.36.14.WI\_zeroNOX.ld.camx.avrg, d=2001177.4rpos.36.14.base



June 26, 2001 0:00:00

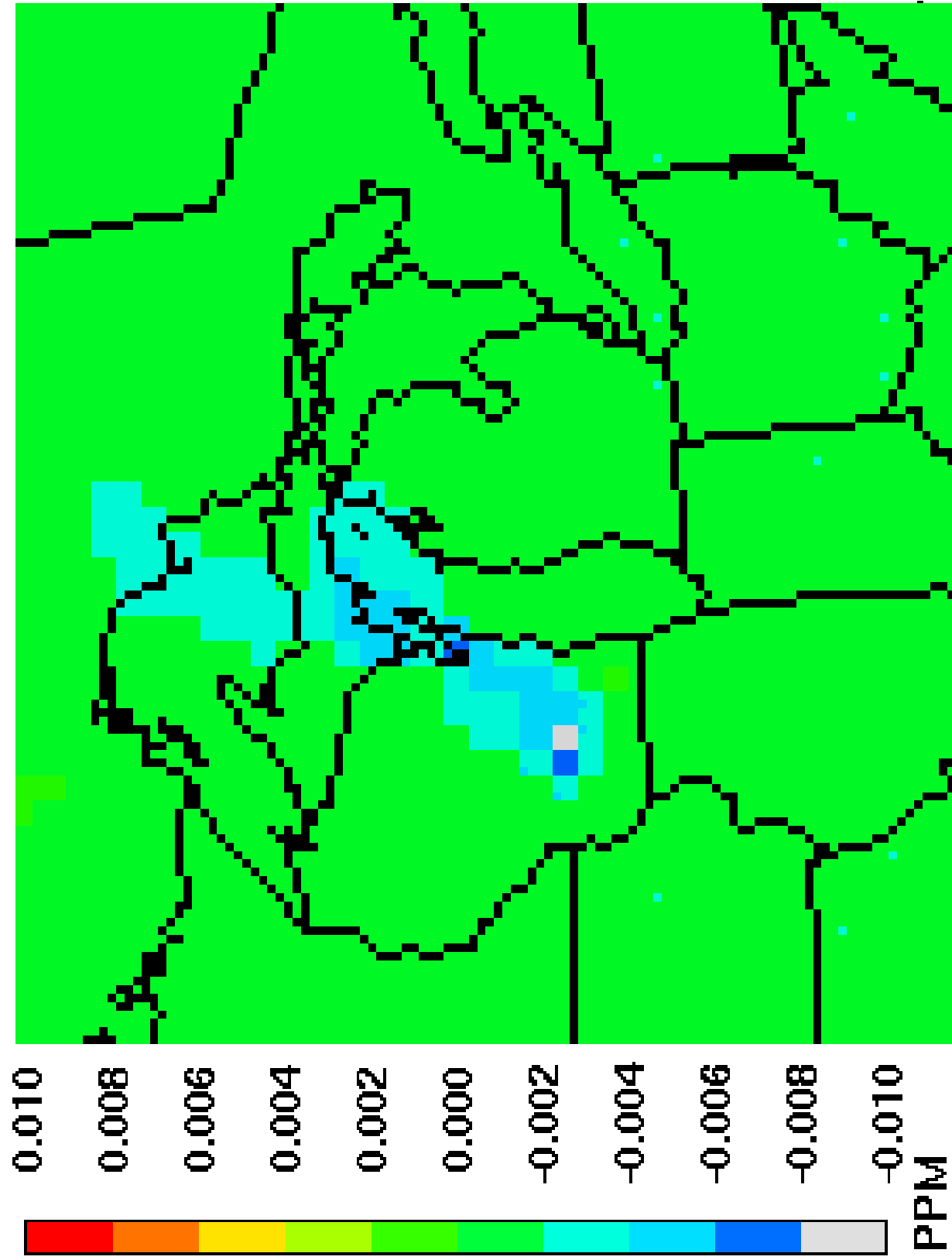
Min= -0.004 at (46,64), Max= 0.002 at (45,56)





June 27, 2001

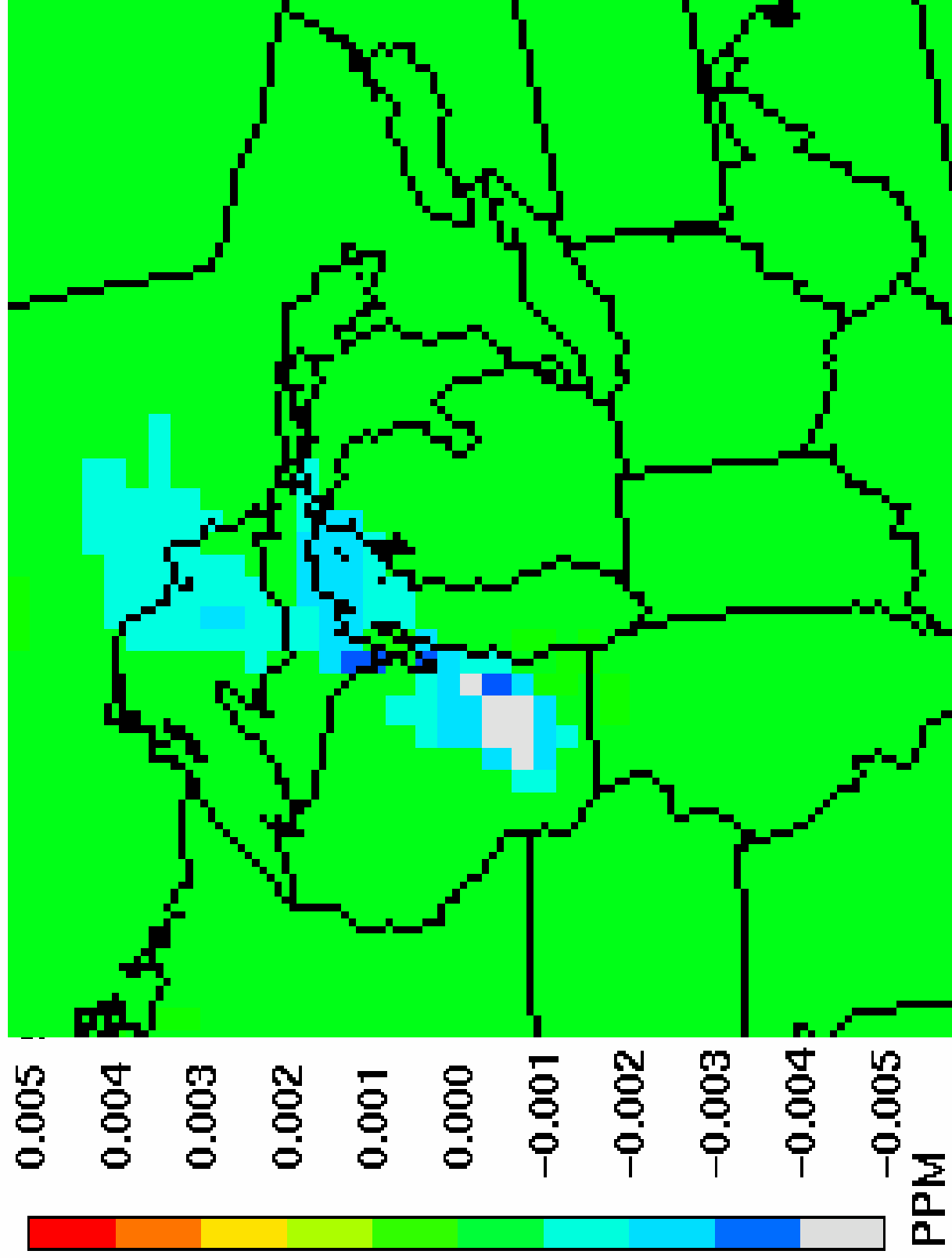
e=2001178.4rpos.36.14.WI\_zeroALL.ld.camx.avrg, f=2001178.4rpos.36.14.baseD.ld.ca



June 27, 2001 0:00:00

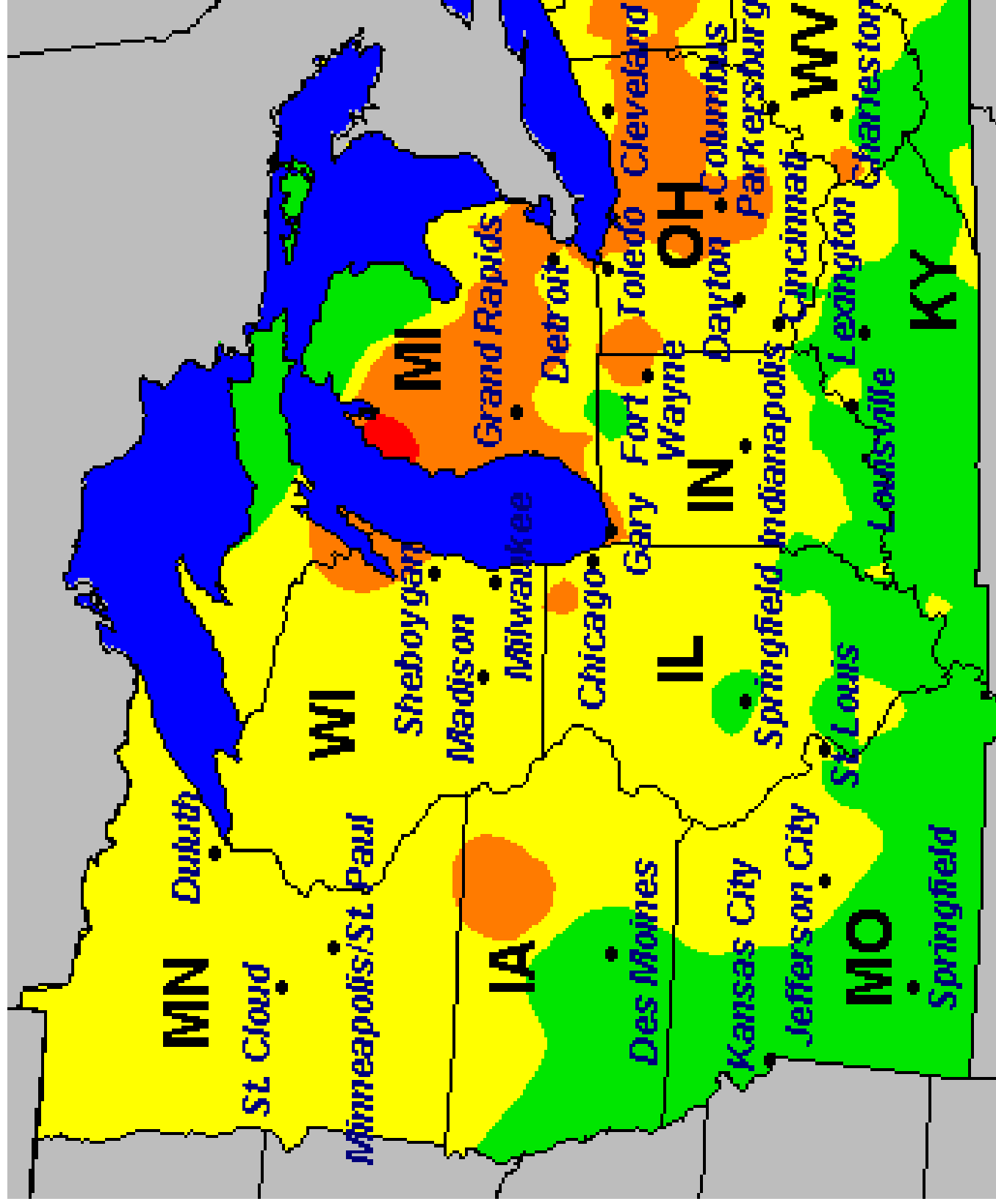
Min= -0.009 at (43,57), Max= 0.000 at (45,55)

8.4rpos.36.14.WI\_zeroNOX.ld.camx.avrg, f=2001178.4rpos.36.14.base



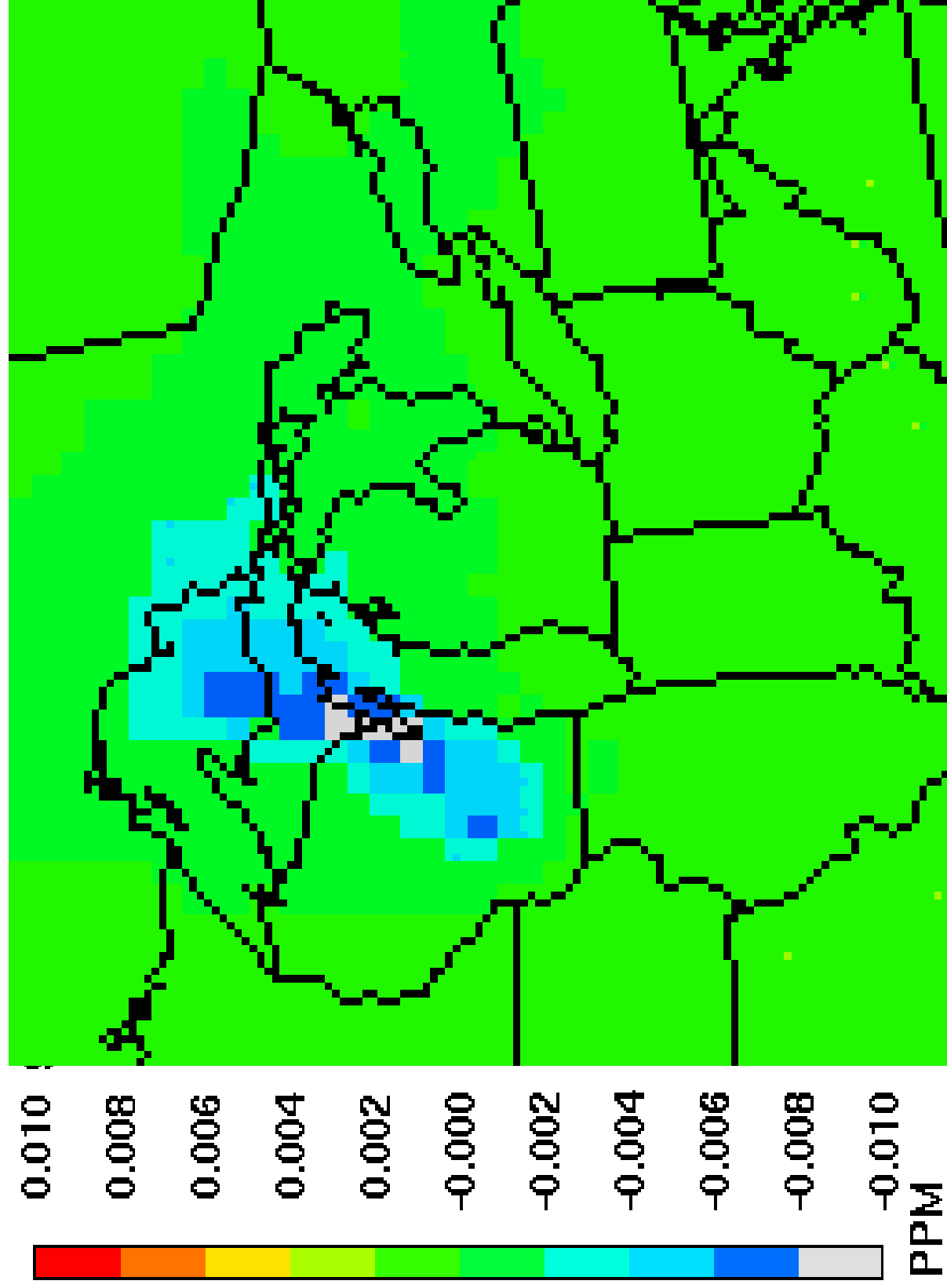
June 27, 2001 0:00:00

Min= -0.008 at (43,57), Max= 0.001 at (45,55)



June 28, 2001

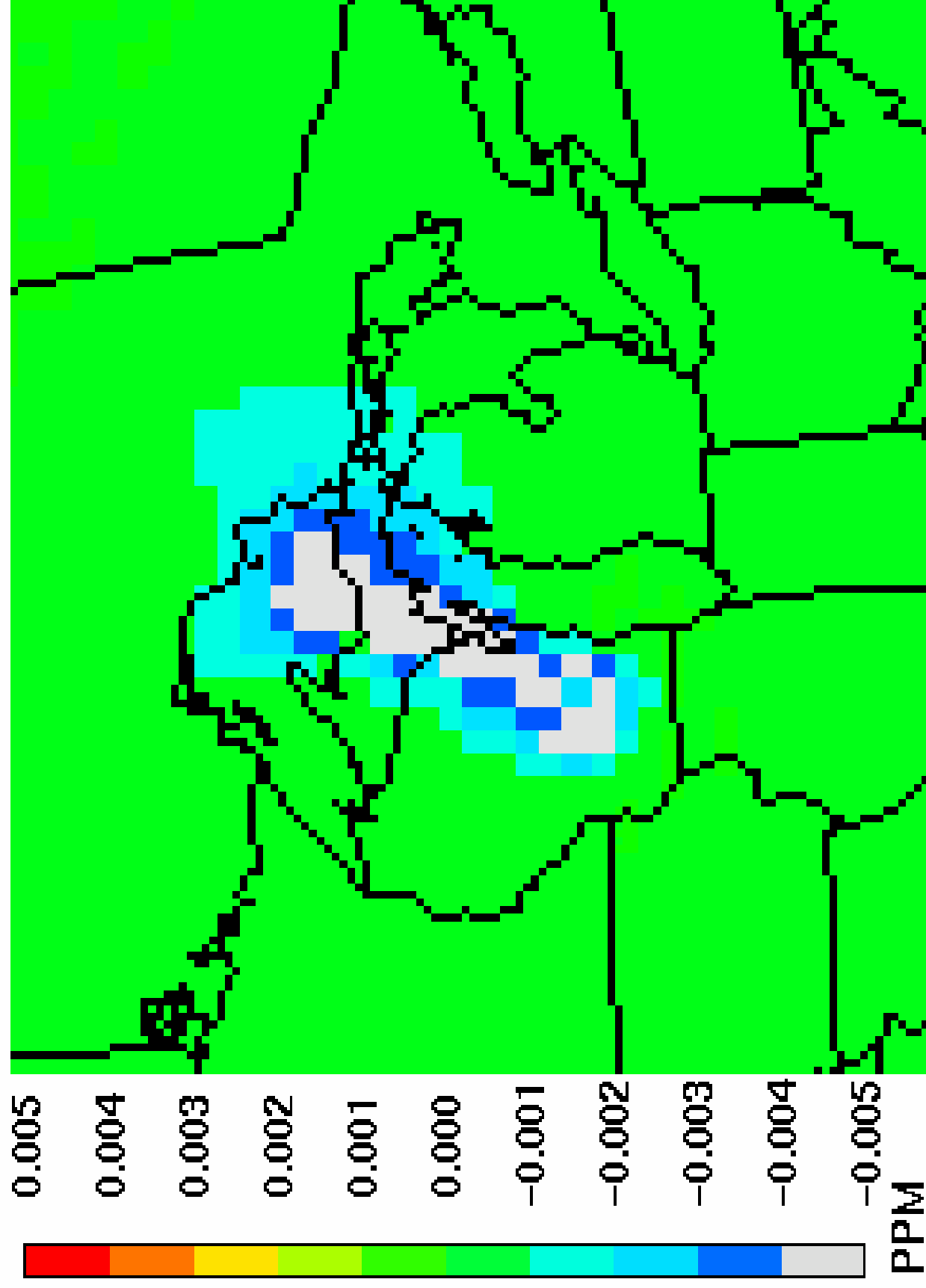
g=2001179,4rpos.36.14,w1\_zeroALL.ld.camx.avrg, h=2001179,4rpos.36.14,based.ld.camx.a



June 28, 2001 0:00:00

Min= -0.010 at (46,62), Max= 0.000 at (47,57)

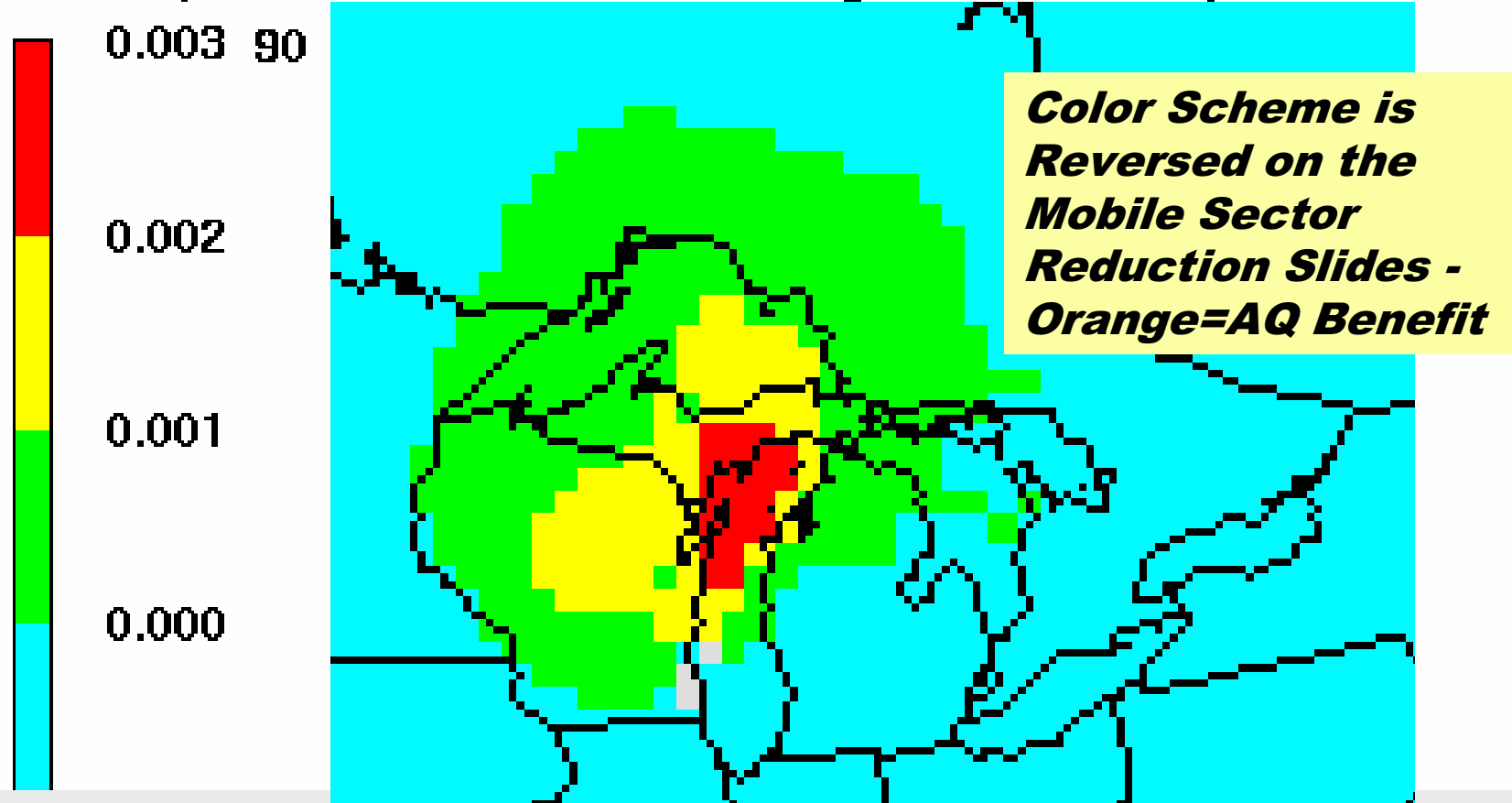
9.4rpos.36.14.wl\_zeroN0X.1d.camx.avrg, n=2001179.4rpos.36.14.dast



June 28, 2001 0:00:00

Min= -0.007 at (46,61), Max= 0.001 at (47,57)

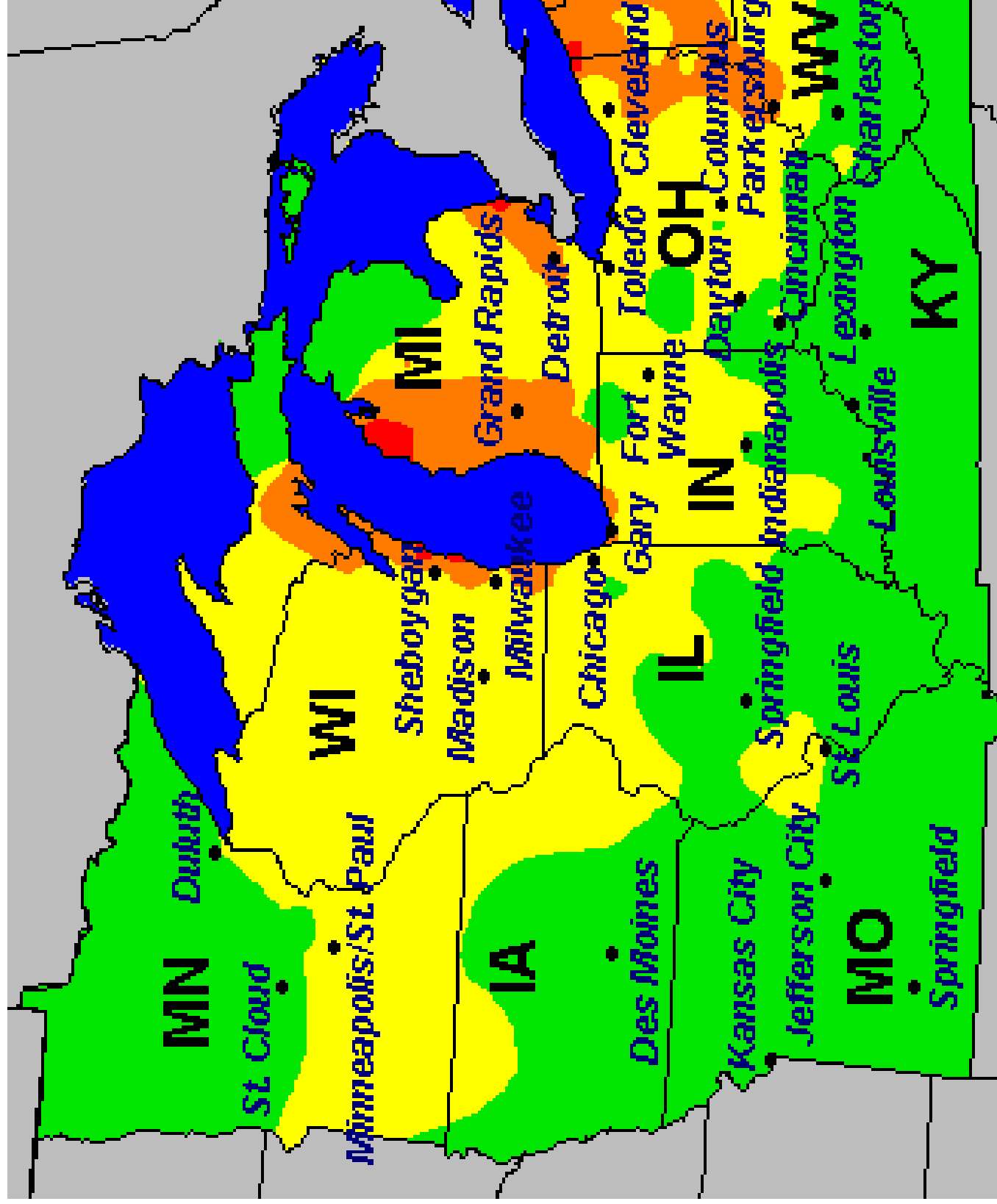
1179.4rpos.36.14.baseD.ld.camx.avrg, h=2001179.4rpos.36.14.wi40.



*...and visualizing pollutant emissions impacts....here from mobile sector reductions of 40%*

June 28,2001 0:00:00

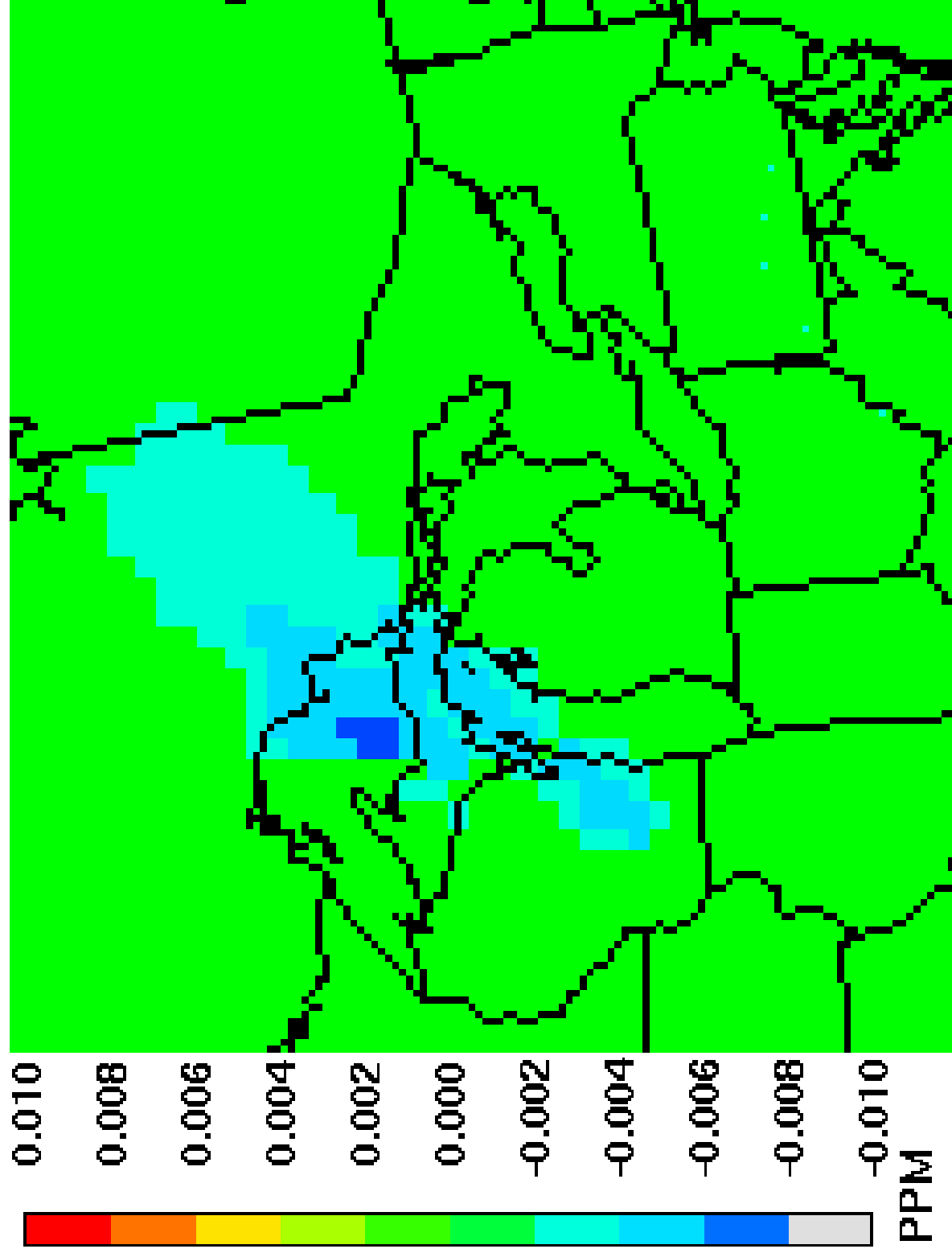
Min= -0.002 at (46,56), Max= 0.003 at (48,63)



June 29, 2001



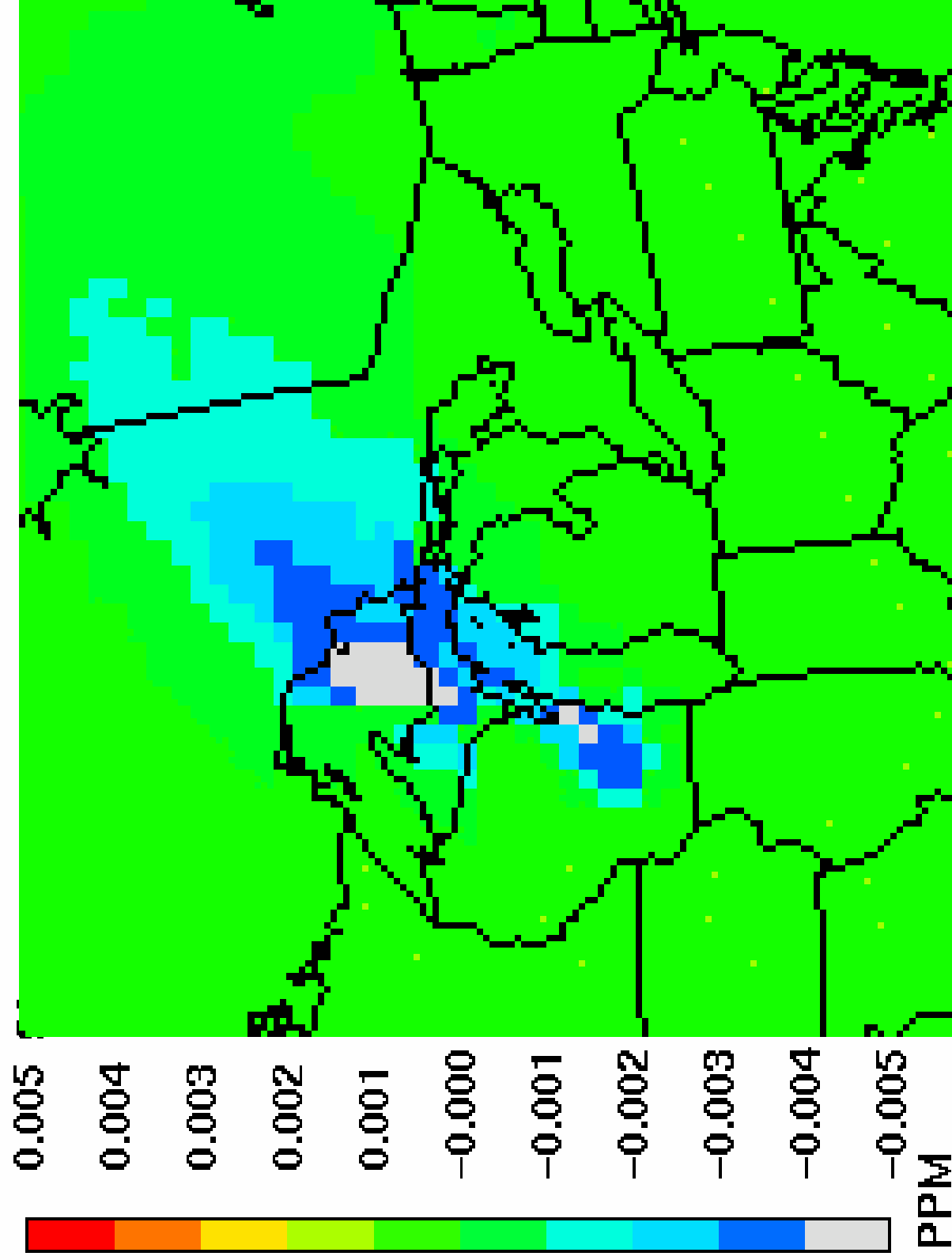
i=2001180.4rpos.36.14.W1\_zeroALL.ld.camx.avg, j=2001180.4rpos.36.14.baseD.ld.camx.a



June 29, 2001 0:00:00

Min= -0.007 at (48,69), Max= 0.000 at (44,62)

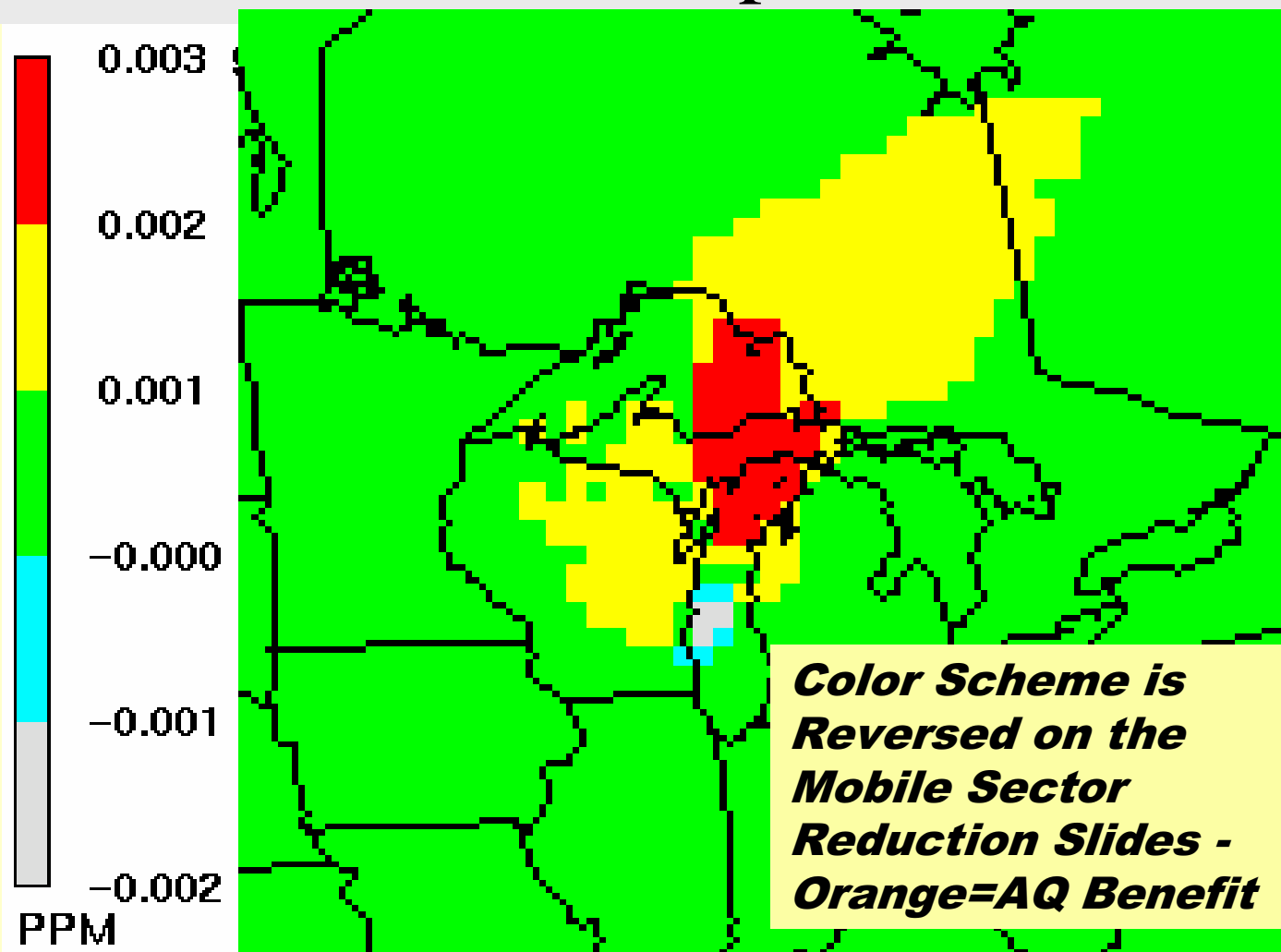
0.4rpos.36.14.wl\_zeroNOX.ld.camx.avrg, j=2001180.4rpos.36.14.base



June 29, 2001 0:00:00

Min= -0.005 at (48,69), Max= 0.001 at (48,59)

# Example - WI Vehicle Pollutant Emissions Footprint



June 29, 2001 0:00:00  
Min= -0.002 at (47,58), Max= 0.003 at (48,63)